

Title (en)

DRIVE CIRCUIT FOR ELECTROMAGNETIC FUEL-INJECTION VALVE

Title (de)

ANTRIEBSSCHALTUNG FÜR EIN ELEKTROMAGNETISCHES KRAFTSTOFFEINSPRITZVENTIL

Title (fr)

CIRCUIT DE COMMANDE POUR VALVE ÉLECTROMAGNÉTIQUE D'INJECTION DE CARBURANT

Publication

EP 2508743 A1 20121010 (EN)

Application

EP 10832919 A 20100816

Priority

- JP 2009270971 A 20091130
- JP 2010063805 W 20100816

Abstract (en)

A drive circuit for driving an electromagnetic fuel-injection valve, the drive circuit varying an application sequence of a drive voltage, which is supplied from a step-up power supply to a fuel-injection valve for conducting injection multiple times in a single stroke of an internal-combustion engine, between the first injection and the second and subsequent injections, and setting the application sequence such that the consumption of power from the step-up power supply in the first injection becomes smaller than the power consumption in one of the second and subsequent injections.

IPC 8 full level

F02M 51/06 (2006.01); **F02D 41/20** (2006.01); **F02D 41/40** (2006.01); **F02M 51/00** (2006.01)

CPC (source: EP US)

F02D 41/20 (2013.01 - EP US); **F02D 41/402** (2013.01 - EP US); **F02D 2041/2003** (2013.01 - EP US)

Cited by

CN110959068A; DE112018003842B4

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2508743 A1 20121010; **EP 2508743 A4 20151021**; **EP 2508743 B1 20170816**; CN 102639860 A 20120815; CN 102639860 B 20150415; JP 2011112008 A 20110609; JP 5331663 B2 20131030; US 2012234299 A1 20120920; US 8899210 B2 20141202; WO 2011065072 A1 20110603

DOCDB simple family (application)

EP 10832919 A 20100816; CN 201080053746 A 20100816; JP 2009270971 A 20091130; JP 2010063805 W 20100816; US 201013512406 A 20100816